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$$\int_0^{\frac{\pi}{4}} \frac{dx}{\cos^2 x} = \left[tg\, x \right]_0^{\pi/4} = tg\left(\frac{\pi}{4}\right) - tg(0)$$

$$= \boxed{1}$$

exemple :

$$I = \int_{-2}^{0} (3x^2 + 2x - 4)\, dx$$

$$J = \int_0^2 \frac{2x}{(x^2+1)^2}\, dx .$$

Rep :

$$I = \int_{-2}^{0} (3x^2 + 2x - 4)\, dx$$

$$= \left[x^3 + x^2 - 4x \right]_{-2}^{0}$$

$$= \boxed{-4} .$$

$$J = \int_0^2 \frac{2x}{(x^2+1)^2}\, dx = \left[\frac{-1}{x^2+1} \right]_0^2 = \boxed{\frac{4}{5}}$$

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